

# Human DUT Knockdown Cell Line (WB-Validated)



**Catalog #: C61945**

## Aliases

DUT; Deoxyuridine Triphosphatase; DUTP Pyrophosphatase; DUTPase; Deoxyuridine 5'-Triphosphate Nucleotidohydrolase, Mitochondrial; DUTP Diphosphatase; EC 3.6.1.23; DUTP Nucleotidohydrolase; DUTPASE; BMFDMS

## Background

Gene Name: DUT  
NCBI Gene Entry: [1854](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human DUT Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

## Parental Cell Line

Human cell line supplied by the client

## Validation Methods

RT-qPCR, Western blotting (WB)

## Shipping

Shipped on Dry Ice.

## Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

## Validation Data

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### SUPPORT

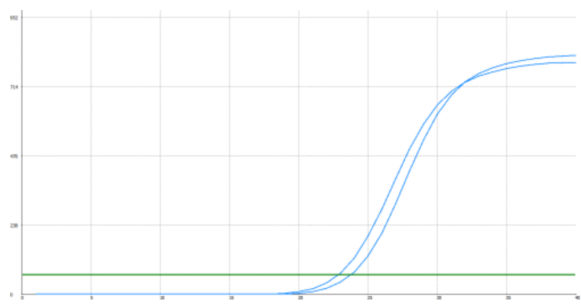
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### ORDERS

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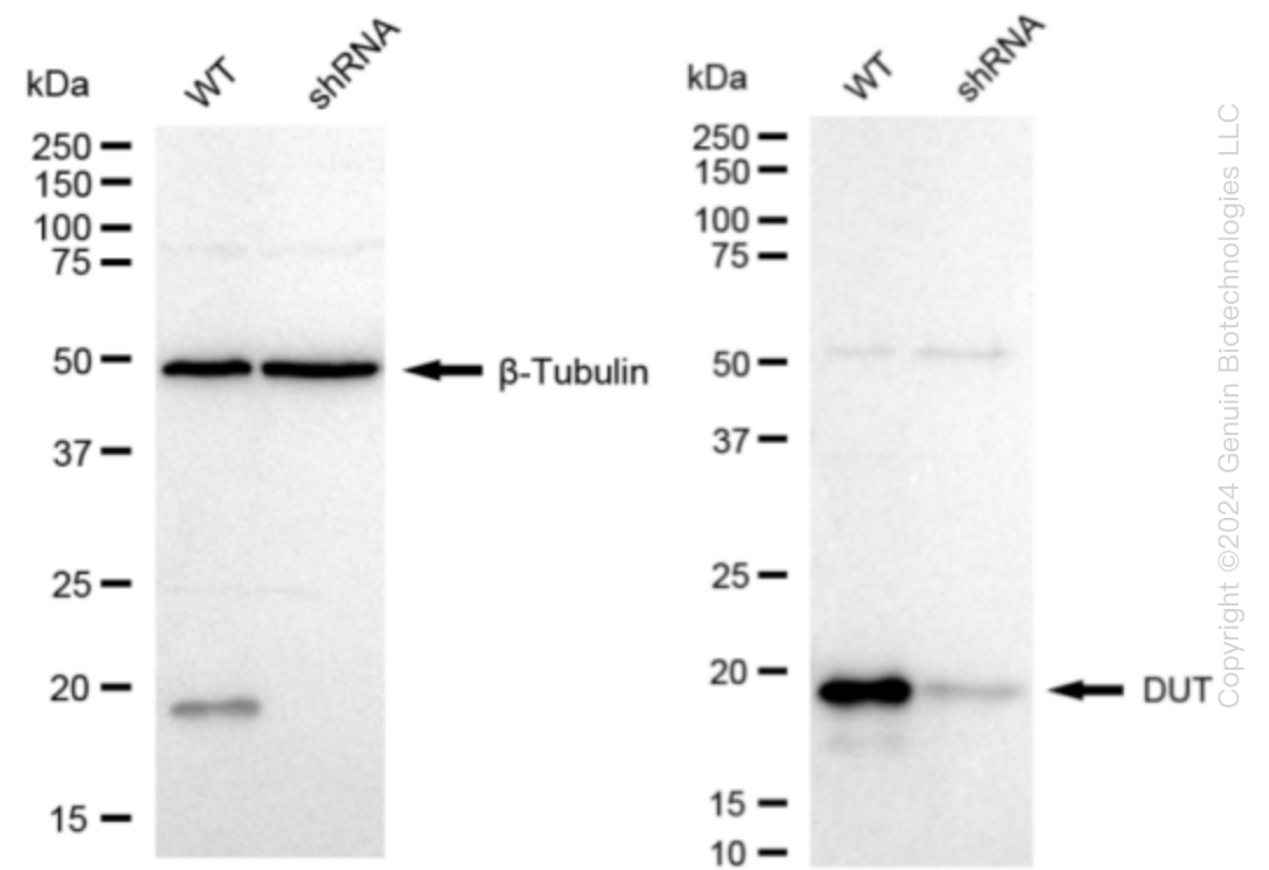
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| Genotype                      | Ct Value |
|-------------------------------|----------|
| Wild-Type                     | 22.55    |
| Knock-Down                    | 23.49    |
| $\Delta Ct (Ct_{KD}-Ct_{WT})$ | 0.94     |
| % mRNA Reduction              | ↓ 48%    |

RT-qPCR analysis. HeLa cells were infected with DUT-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD}-Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2^{\Delta Ct}) \times 100\%$ .



Western blotting analysis. DUT protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61945, 1:5,000) against DUT and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

SUPPORT

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